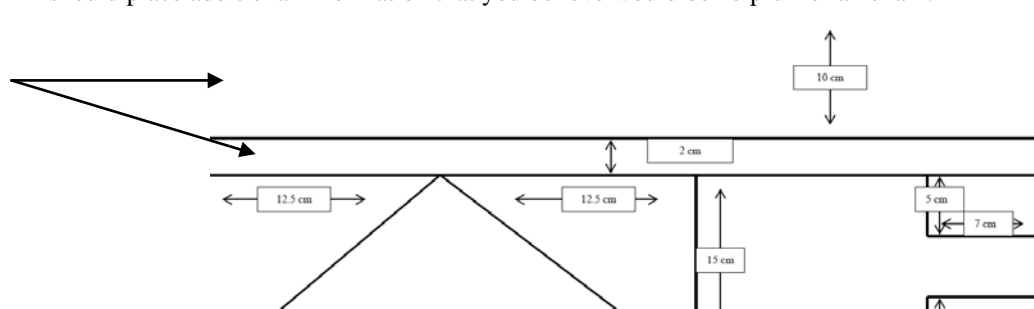


First Semester Map Section 1 – Ecology



On the very top section of your Semester Map the following should be drawn in there and the questions that follow should be incorporated. Remember that you are not limited to the questions from this insert. You should place additional information that you believe would be helpful for an exam.



Draw at least 3 different producers on the right side of this section. On the left side of this section draw at least 3 different consumers. Include pictures abiotic matter as well.

CO₂/O₂ Cycle

1. Draw the path that O₂ takes through the environment. What is O₂ used for in this cycle, briefly explain how it works?
2. Write the formula for Cellular Respiration. Where does Respiration take place? What is the purpose of Respiration?
3. Draw that path that CO₂ takes through the environment. What is CO₂ used for in this cycle?
4. Write the formula for Photosynthesis. Where does Photosynthesis take place? What is the purpose of Photosynthesis, briefly explain how it works? Where does all the essential materials come from in this system and how does it get to the place needed?
5. Don't forget the sun's energy.

N-Cycle

1. Using the same organisms that you used in the CO₂/O₂ cycle, incorporate all the contents of the Nitrogen cycle in their appropriate areas. You should incorporate words and symbols such as: (What are the different process that take place in the cycle)
 - a. N₂
 - b. Atmospheric Nitrogen Fixation
 - c. NO₃ & NO₂
 - d. Bacterial Nitrogen Fixation
 - e. Decomposition
 - f. NH₃
2. What is Nitrogen used for in each organism that you have drawn?

Water Cycle

1. Incorporate the following words and pictures in the ecology cycle that you have above.
 - a. Condensation
 - b. Evaporation
 - c. Precipitation
 - d. Run-off
 - e. Ground water
 - f. Transpiration
 - g. Absorption
2. Explain why this cycle is important



Caption section below picture.

- Explain the importance of each of the biogeochemical cycles especially how they are used in both plants and animals.
- How do chemicals travel through the environment? How does energy travel through the environment? Explain both answers.
- Leave room for next unit.